Upon relational table created in tast-2, perform normalization up to BCNF based on given populationed Dependencies as following for the assermed relations specifed below.

Step1: Employee Database.

1) Identify employee attributes: Employee \$0, Name, Department, Job- Title, Manager-ID, Hire-Date, · probad

2) Define relational schema: Employer (Employer-Ib, Name, Department, Job. Title, Manager- ID, Hire-Date, Soleny).

- 3) Determine functional dependencies (FOC) blu attributes.
 - Employee ID -> Mane, bepartment, Job-Title, Manager 10, Hire-Dote, Solony.
 - Department -> Monager 1D.
 - Manager_s Nome.

Stepa: Convert to INF

- 1) Eliminate repeating groups or arroy (none in this comple).
- 2) Create separate table for each repeating group (none in this example). gilmmidgal, sondt

Step 3. 19 19 190108

- 1) Ensure each nan-key attribute depends on the entre primary key,
- 2) More non-key attribates to separate tables if key depends on only part of the primary. Ivey.
 - Create Department table: Department (Department-1D, Manager_10, Nane)

Task 8: Normalizing database ving forctional depending upto BCNF

Using Griffeth Tool.

- 1) Input relational schoma and furthinal doponderos
- 2) Griffeth tool generates dependency graph
- 3) Analyze the graph to identify normalization issues
- W) Apply normalization rules to transform the schoma.
- 5) verly the seculting schema mosts BCNE criteria.

Griffith Tool / Steps. I have gringel and of

- 1) create a new project in Griffath
- 2) Befine the relational schema and FDS.
- 3) Run the "Depending Graph" tool.
- 4) Analyze the graph for normalize issues.
- 5) Apply transformation using the "Normalize" tool.
- 6) Verify BCNF compliance using the "BCNF Check"
 tool.

Normalized Schema.

- 1) Employe (Employee-10, Name, Department-ID, Job-Title Hire-Date, Salony).
- 2) Department (Department ID, Manager ID)
- 3) Manager (Manager_ID, Name)

Step 5: Convert to 3001 BENTE & good and a deal A Stepu: convert to 3 MF and day probably DEnsue there are no tragifire dependencies. 2) Make non-key attributes to separate tables if they depend on another non-key attribute. - Creak Manager table: Manager (Manger-10, Name): - Update Department table: Department (Department-10. Manager-10.). Step 5: Convert to BINIE of rolar Motor Jerrica Wagal D'Ensure every determine is a condicie kay 2) Check for overlapping condide keys. 3) Decompose relations to climate redundancy. 1209 bre emplos lossifes est with the that I saw proport of nath Brody as Homen is done all a plant Jost Positonicola" ist prizo national voit guiga (Shorted Barle combigues the Barle of Hit dot was - Lumbridges and all - 28 paly of) grapped ((CIT reported of themself) from right (such as voperal) reported

sussitivated in the straight mater can repair and the despited and one to have sent although and other godinal of the -Explosed a size of framen or other 1 postar in contrast BLOW, THERE , TAMPONTON ATTOM AT MAN AND bridges Backyp sint afferma, mount can. prince tobrammon spoor : age. Mero or Careon or atabable ARASIATAGE quiti AB Main, 1-Amount with an 19710 Him book gustoned of hear answork stop to state of the loss abol film our states pullomilarishalordated ortsolled total VELTECH EX No. PERFORMANCE (5) RESULT AND ANALYSIS (3) VIVA VOCE (3) RECORD (4) TOTAL (15) SIGN WITH DATE Hence, Normally Database using foretinal Result: depending oup to BLAF dono successibility.